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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/784,563	02/15/2001	Chester Li	5026	1809	
24536 7	590 02/03/2003				
GENZYME CORPORATION LEGAL DEPARTMENT 15 PLEASANT ST CONNECTOR FRAMINGHAM, MA 01701-9322			EXAMI	EXAMINER SHUKLA, RAM R	
			SHUKLA,		
			ART UNIT	PAPER NUMBER	
			1632		
			DATE MAILED: 02/03/2003	10	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/784,563	LI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ram R. Shukla	1632			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status 1) M. Doomonoive to communication (c) filed on 03.0	2000				
<u>- </u>	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.					
	4a) Of the above claim(s) 11-15 is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2 and 5</u> is/are rejected.					
7)⊠ Claim(s) <u>3,4 and 6-10</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents 	have been received.				
Certified copies of the priority documents	have been received in Application	on No			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) 🖾 Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.					
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			

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DETAILED ACTION

1. Applicant's election of the invention of groups I, claims 1-10 and Fabry Disease as the species in Paper No. 9 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. Claims 11-15 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 9.

Specification

3. The disclosure is objected to because of the following informalities: The first sentence of the application refers to the current application as a CIP of a provisional application.

Applicant is reminded that an application claiming the benefits of a provisional application under 35 U.S.C. 119(e) should not be called a "continuation" of the provisional application since an application that claims benefit of a provisional application is a nonprovisional application of a provisional application, not a continuation, division, or continuation-in-part of the provisional application (see MPEP 201.07).

Appropriate correction is required.

- 4. As noted by the applicants, only claims 1, 2, and 5 read on the elected species. Therefore, only claims 1, 2, and 5 will be examined in the instant office action.
- 5. Claims 3,4, and 6-10 are objected to because they are drawn to non-elected species.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 1, 2 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 2 and 5 recites the limitation "the lung" in line 2. There is insufficient antecedent basis for this limitation in the claim since the term "a lung" has not been described before.

Claim 2 is vague and indefinite because it is unclear as to what is referred to by the term "expresses" in line 4, the lung cells or the delivery vector

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless ~

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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10. Claims 1, 2, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Yew et al (US Patent 6,066,626, 5-23-00, effective filing date 10-29-1997).

Yew et al teach a method of providing biologically active human alphagalactosidase A to cells of an individual having deficiency in biologically active human alpha-galactosidase A wherein cells express biologically active alphagalactosidase A (see claims 1-14). The patent teaches methods using both an adenoviral vector and other vectors (see examples). The patent also teaches intranasal, intramuscular and intravenous methods of administration and that the protein is produced in Lung and is present in other tissues (see examples and figures). The patent also teaches that the protein is secreted by cells transfected by the vector and the secreted protein is taken up by other cells (see the abstract).

Accordingly, the claimed invention is anticipated by the Yew et al.

11. Claims 1, 2, and 5 are rejected under 35 U.S.C. 102(B) as being anticipated by Ziegler et al (Human Gene Therapy 10:1667-1682, 1999).

This art teaches a method of correcting Lysosomal storage defect in a Fabry mouse by administering an adenoviral vector comprising alpha-galactosidase coding DNA sequence (see the methods section). The art also teaches adenovirus that is has greater persistence of expression in lungs (see the first full paragraph in the methods section). The mice were administered 10¹¹ particles of the virus (see the results) and the enzyme was secreted in circulation and taken up by tissues (see the results and discussion section).

Accordingly, the claimed invention is anticipated by Ziegler et al.

12. No claim is allowed.

When amending claims, applicants are advised to submit a clean version of each amended claim (without underlining and bracketing) according to \S 1.121(c).

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For instructions, Applicants are referred to

http://www.uspto.gov/web/offices/dcom/olia/aipa/index.htm.

Applicants are also requested to submit a copy of all the pending/under consideration claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram R. Shukla whose telephone number is (703) 305-1677. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached on (703) 305-4051. The fax phone number for this Group is (703) 308-4242. Any inquiry of a general nature, formal matters or relating to the status of this application or proceeding should be directed to the William Phillips whose telephone number is (703) 305-3413.

PATENT EXAMINER

Ram R. Shukla, Ph.D. Primary Examiner Art Unit 1632